Name of work: Improvements to Roads and Drains in Kuvempu Nagara, Singapura, Ramachandrapura and surrounding area's in ward no-11

								Estimate Cost Rs.	12000000.00
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300-1. **Earth work excavation** by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. P No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	For Road Cutting Protion								
	Singapura Paradise Main Road		2	405.00	1.40	0.30	340.20		
	Cross Road-5		2	130.00	0.45	0.30	35.10		
	Cross Road-6		2	130.00	0.90	0.30	70.20		
	Singapura Paradise 6th cross Sub-Roads								
	Sub road-1		2	30.00	0.45	0.30	8.10		
	Sub road-2		2	40.00	0.45	0.30	10.80		
	Sub road-3		2	50.00	0.45	0.30	13.50		
	Sub road-4		2	65.00	0.45	0.30	17.55		
	Sommanna layout Main Road (Width-0.9+0.9+1.5)								
	7th main road		1	120.00	3.30	0.30	118.80		
	1st stage main road		1	150.00	3.30	0.30	148.50		
	2nd stage main road		1	150.00	3.30	0.30	148.50		
	3rd stage main road		1	150.00	3.30	0.30	148.50		
	4th stage main road		1	150.00	3.30	0.30	148.50		
	5th stage main road		1	150.00	3.30	0.30	148.50		
	6th cross main road		1	100.00	7.80	0.30	234.00		
							1590.75	**137.80**	**219205.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **Wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406,P No. 155/ Item No. 20.18/ PWD SR 2018-19	Cum							
	Singapura Paradise Main Road		2	405.00	1.40	0.23	260.82		
	Cross Road-5		2	130.00	0.45	0.23	26.91		
	Cross Road-6		2	130.00	0.90	0.23	53.82		
	Singapura Paradise 6th cross Sub-Roads								

	Sub road-1		2	30.00	0.45	0.23	6.21		
	Sub road-2		2	40.00	0.45	0.23	8.28		
	Sub road-3		2	50.00	0.45	0.23	10.35		
	Sub road-4		2	65.00	0.45	0.23	13.46		
	Sommanna layout Main Road (Width-0.9+0.9+1.5)								
	7th main road		1	120.00	3.30	0.23	91.08		
	1st stage main road		1	150.00	3.30	0.23	113.85		
	2nd stage main road		1	150.00	3.30	0.23	113.85		
	3rd stage main road		1	150.00	3.30	0.23	113.85		
	4th stage main road		1	150.00	3.30	0.23	113.85		
	5th stage main road		1	150.00	3.30	0.23	113.85		
	6th cross main road		1	100.00	7.80	0.23	179.40		
							1219.58	**2001.28**	**2440711.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
3	KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo-Medium Porosity MORTH chapter 5, No. 158/ Item No. 21.6/ PWD SR 2018-19	Sqm							
	Singapura Paradise Main Road		2	405.00	1.40		1134.00		
	Cross Road-5		2	130.00	0.45		117.00		
	Cross Road-6		2	130.00	0.90		234.00		
	Singapura Paradise 6th cross Sub-Roads								
	Sub road-1		2	30.00	0.45		27.00		
	Sub road-2		2	40.00	0.45		36.00		
	Sub road-3		2	50.00	0.45		45.00		
	Sub road-4		2	65.00	0.45		58.50		
	Sommanna layout Main Road (Width-0.9+0.9+1.5)								
	7th main road		1	120.00	3.30		396.00		
	1st stage main road		1	150.00	3.30		495.00		
	2nd stage main road		1	150.00	3.30		495.00		
	3rd stage main road		1	150.00	3.30		495.00		
	4th stage main road		1	150.00	3.30		495.00		
	5th stage main road		1	150.00	3.30		495.00		
	6th cross main road		1	100.00	7.80		780.00		
							5302.50	**36.04**	**191102.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							

4	KSRRB 500-11. Providing and laying **bituminous macadam** on Prepared Surface with crushed Coarse aggregates as per Design mix formulae for base/binding course including loading of aggregates with F.E loader,Hot mixing of Stone aggregates and bitumen in Hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve desired density, but excluding cost of primer/Tack coat including lead, lift and cost of all materials, labour HOM of machinaries complete as per Specifications. MORTH Ch 5. using 40/60 TPH capacity HMP with Mechanical paver Gr-II (50mm - 75mm) with 3.4% VG-30 bitumen. Item no:21.11.6								
	Singapura Paradise Main Road (1.5m UGD Cut portion)		2	405.00	2.90	0.05	117.45		
	Cross Road-5		2	130.00	0.45	0.05	5.85		
	Cross Road-6		2	130.00	0.90	0.05	11.70		
	Singapura Paradise 6th cross Sub-Roads								
	Sub road-1		2	30.00	0.45	0.05	1.35		
	Sub road-2		2	40.00	0.45	0.05	1.80		
	Sub road-3		2	50.00	0.45	0.05	2.25		
	Sub road-4		2	65.00	0.45	0.05	2.93		
	Sommanna layout Main Road (Cut portion-0.9+0.9 &UGD-1.5)								
	7th main road		1	120.00	3.30	0.05	19.80		
	1st stage main road		1	150.00	3.30	0.05	24.75		
	2nd stage main road		1	150.00	3.30	0.05	24.75		
	3rd stage main road		1	150.00	3.30	0.05	24.75		
	4th stage main road		1	150.00	3.30	0.05	24.75		
	5th stage main road		1	150.00	3.30	0.05	24.75		
	6th cross main road		1	100.00	7.80	0.05	39.00		
							325.88	**6172.38**	**2011424.00**
	Basic Rate	5823.00							
	Area Weightage @ 6%	349.38							
	Total	**6172.38**							
5	KSRRB M500-10. Tack Coat:- Providing and applying **tack coat** using 80/100 grade bitumen (VG 10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mechancial broom. complete as per specifications. MORTH Specification No. 503 (P-159, Item.no 21.10).	**Sqm**							
	Singapura Paradise Main Road		1	405.00	11.80		4779.00		
	Cross Road-5		1	130.00	5.40		702.00		
	Cross Road-6		1	130.00	5.40		702.00		
	Singapura Paradise 6th cross Sub-Roads								
	Sub road-1		1	30.00	4.50		135.00		
	Sub road-2		1	40.00	4.50		180.00		
	Sub road-3		1	50.00	4.50		225.00		

	Sub road-4		1	65.00	4.50		292.50		
	Sommanna layout Main Road (Cut portion-0.9+0.9 &UGD-1.5)								
	7th main road		1	120.00	7.80		936.00		
	1st stage main road		1	150.00	7.80		1170.00		
	2nd stage main road		1	150.00	7.80		1170.00		
	3rd stage main road		1	150.00	7.80		1170.00		
	4th stage main road		1	150.00	7.80		1170.00		
	5th stage main road		1	150.00	7.80		1170.00		
	6th cross main road		1	100.00	7.80		780.00		
							14581.50	**12.72**	**185477.00**
	Basic Rate	12.00							
	Area Weightage @ 6%	0.72							
	Total	**12.72**							
6	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification 30-45mm compacted thicikness (GradingII) With 6% bitumen 80/100, No. 161/ Item No. 21.22.1/ PWD SR 2018-19	**Cum**							
	Singapura Paradise Main Road		1	405.00	11.80	0.04	191.16		
	Cross Road-5		1	130.00	5.40	0.04	28.08		
	Cross Road-6		1	130.00	5.40	0.04	28.08		
	Singapura Paradise 6th cross Sub-Roads								
	Sub road-1		1	30.00	4.50	0.04	5.40		
	Sub road-2		1	40.00	4.50	0.04	7.20		
	Sub road-3		1	50.00	4.50	0.04	9.00		
	Sub road-4		1	65.00	4.50	0.04	11.70		
	Sommanna layout Main Road (Width-0.9+0.9+1.5)								
	7th main road		1	120.00	7.80	0.04	37.44		
	1st stage main road		1	150.00	7.80	0.04	46.80		
	2nd stage main road		1	150.00	7.80	0.04	46.80		
	3rd stage main road		1	150.00	7.80	0.04	46.80		
	4th stage main road		1	150.00	7.80	0.04	46.80		
	5th stage main road		1	150.00	7.80	0.04	46.80		
	6th cross main road		1	100.00	7.80	0.04	31.20		
							583.26		
	For profile correction (5% of total quantity)						**29.16**		
							612.42	**8869.02**	**5431592.00**
	Basic Rate	8367.00							
	Area Weightage @ 6%	502.02							
	Total	**8869.0**							

		2							
7	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 181., I.No.24.15 of KPWD S.R 2018-19).	Sqm							
	Singapura Paradise Main Road		0.5	405.00	0.10		20.25		
	Cross Road-5		0.5	130.00	0.10		6.50		
	Cross Road-6		0.5	130.00	0.10		6.50		
	Singapura Paradise 6th cross Sub-Roads								
	Sub road-1		0.5	30.00	0.10		1.50		
	Sub road-2		0.5	40.00	0.10		2.00		
	Sub road-3		0.5	50.00	0.10		2.50		
	Sub road-4		0.5	65.00	0.10		3.25		
	Sommanna layout Main Road (Width-0.9+0.9+1.5)								
	7th main road		0.5	120.00	0.10		6.00		
	1st stage main road		0.5	150.00	0.10		7.50		
	2nd stage main road		0.5	150.00	0.10		7.50		
	3rd stage main road		0.5	150.00	0.10		7.50		
	4th stage main road		0.5	150.00	0.10		7.50		
	5th stage main road		0.5	150.00	0.10		7.50		
	6th cross main road		0.5	100.00	0.10		5.00		
							91.00	**454.74**	**41381.00**
	Basic Rate	429.00							
	Area Weightage @ 6%	25.74							
	Total	**454.74**							
							Grand Total		**10520892.00**
8	For 12% Applicable GST								**1262507.00**
9	For 2% PMC Charges								**210418.00**
10	Miscellaneous Charges								**6183.00**
									12000000.00

Technical Sanction
Accorded For RS120.00 lakhs only
Head of A/C. P-3409
CER NO :...311..... Dt:..07.03.2019

TA CE (YNK)